L2 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2000:628113 CAPLUS

DOCUMENT NUMBER:

133:222496

TITLE:

Nitrosated and nitrosylated prostaglandins,

compositions and methods of use

INVENTOR (S):

Garvey, David S.; Gaston, Ricky D.; Saenz de Tejada, Inigo; Tam, Sang William; Worcel, Manuel; Letts, →

Gordon L.

PATENT ASSIGNEE(S):

SOURCE:

Nitromed, Inc., USA PCT Int. Appl., 82 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

LANGUAGE:

Patent English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

	PATENT NO.					KIND		DATE		APPLICATION NO.					DATE				
															-				
	WO	2000051978				A1				WO 2000-US5286									
		W:	ΑE,	ΑL,	AM,	ΑT,	ΑU,	ΑZ,	BA,	BB,	ВG,	BR,	BY,	CA,	CH,	CN,	CR,	CU,	
								ES,											
								KΡ,											
			MD,	MG,	MK,	MN,	MW,	MX,	NO,	NZ,	PL,	PT,	RO,	RU,	SD,	SE,	SG,	SI,	
			SK,	SL,	ТJ,	TM,	TR,	TT,	TZ,	UΑ,	ŬĠ,	US,	UZ,	VN,	YU,	ZA,	ZW,	AM,	
			ΑZ,	BY,	KG,	KZ,	MD,	RU,	ТJ,	TM									
		RW:	GH,	GM,	KΕ,	LS,	MW,	SD,	SL,	SZ,	TZ,	UG,	ZW,	ΑT,	BE,	CH,	CY,	DE,	
			DK,	ES,	FI,	FR,	GB,	GR,	ΙE,	ΙT,	LU,	MC,	NL,	PT,	SE,	BF,	ВJ,	CF,	
			CG,	CI,	CM,	GΑ,	GN,	GW,	ΜL,	MR,	ΝE,	SN,	TD,	TG					
PRIORITY APPLN. INFO.:									US 1999-122273P]	P 19990301				
										. 1	US 1	999-:	1385	02P]	P 1.9	9990	609	
OTHER SOURCE(S):					MARPAT 133:222496														

Novel nitrosated and/or nitrosylated prostaglandins I (R1 = OD1, C1; R2, R8 = H, R1R2 = CH2, O; R3, R4 = H, OD1, Me; R5, R6 = H, OD1, Me, MeO, CH:CH2; R7 = H, OD1; R9 = H, allene functionality, R8R9 may form a benzene ring when R1 is a O atom; A = CH, CH2, S, O; B = CH, CH2, S, CO; X = CH2OR11, CO2R11, COND1R12; R11 = D1, alkyl, p-benzamidophenyl; R12 = SO2Me, COMe; Z = Et, Bu, hexyl, benzyl, etc; D1 = H, D; D = NO, NO2, etc) were prepared, and novel compns. were prepared comprising at least one nitrosated and/or nitrosylated prostaglandin, and, optionally, at least one compound that donates, transfers or releases nitric oxide, elevates endogenous levels of endothelium-derived relaxing factor, stimulates endogenous synthesis of nitric oxide or is a substrate for nitric oxide synthase, and/or at least one vasoactive agent. The novel compns. contained at least one prostaglandin and at least one

S-nitrosothiol compound, and, optionally, at least one vasoactive agent. The **prostaglandin** is preferably a **prostaglandin** El compound, more preferably alprostadil, and the S-nitrosothiol compound is preferably S-nitrosoglutathione. The present invention also provides methods for treating or preventing sexual dysfunctions in males and females, for enhancing sexual responses in males and females, and for treating or preventing cerebrovascular disorders, cardiovascular disorders, benign prostatic hyperplasia (BPH), glaucoma, peptic ulcers or for inducing abortions. Thus, (2S,3S)-2,3,4-tris(nitroxy)butan-1-ol, prepared in 5 steps from (4S,5S)-4,5-bis(hydroxymethyl)-2,2-dimethyl-1,3-dioxolane, was treated with 7-[5-((1E)(3S)-3-hydroxyoct-1-enyl)(1R,4R,5R)-4-hydroxy-2-oxocyclopentyl]heptanoic acid to give (2S,3S)-2,3,4-tris(nitroxy)butyl 7-[5-((1E)(3S)-3-hydroxyoct-1-enyl)(1R,4R,5R)-4-hydroxy-2-oxocyclopentyl]heptanoate.

REFERENCE COUNT:

THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

- L3 ANSWER 1 OF 39 REGISTRY COPYRIGHT 2004 ACS on STN
- RN 291518-72-4 REGISTRY
- CN Thionitrous acid (HNOS), S-[2-hydroxy-1,1-dimethylethyl] ester (9CI) (CA INDEX NAME)
- FS 3D CONCORD
- MF C4 · H9 N O2 S
- SR CA
- LC STN Files: CA, CAPLUS, CASREACT, TOXCENTER, USPATZ, USPATFULL
- DT.CA CAplus document type: Journal; Patent
- RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
- RL.NP Roles from non-patents: PREP (Preparation); RACT (Reactant or reagent)

- 4 REFERENCES IN FILE CA (1907 TO DATE)
- 4 REFERENCES IN FILE CAPLUS (1907 TO DATE)
- L3 ANSWER 2 OF 39 REGISTRY COPYRIGHT 2004 ACS on STN
- RN 291518-68-8 REGISTRY
- CN Thionitrous acid (HNOS), S-[4-(hydroxymethyl)-1-[(4-methylphenyl)sulfonyl]-4-piperidinyl] ester (9CI) (CA INDEX NAME)
- FS 3D CONCORD
- MF C13 H18 N2 O4 S2
- SR CA
- LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL
- DT.CA CAplus document type: Patent
- RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

- 2 REFERENCES IN FILE CA (1907 TO DATE)
- 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)
- L3 ANSWER 3 OF 39 REGISTRY COPYRIGHT 2004 ACS on STN
- RN **291518-65-5** REGISTRY
- CN 4-Piperidinemethanol, 4-mercapto-1-[(4-methylphenyl)sulfonyl]- (9CI) (CA INDEX NAME)

RN's in WO 00/051978

FS 3D CONCORD

MF C13 H19 N O3 S2

SR CA

LC STN Files: CA, CAPLUS

DT.CA CAplus document type: Patent

RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 4 OF 39 REGISTRY COPYRIGHT 2004 ACS on STN

RN **291518-62-2** REGISTRY

CN 1-Thia-6-azaspiro[2.5]octane, 6-[(4-methylphenyl)sulfonyl]- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C13 H17 N O2 S2

SR CA

LC STN Files: CA, CAPLUS

DT.CA CAplus document type: Patent

RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 5 OF 39 REGISTRY COPYRIGHT 2004 ACS on STN

RN 291518-59-7 REGISTRY

CN Ethanol, 2-(tricyclo[3.3.1.13,7]dec-2-ylthio)- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C12 H20 O S

SR CA

LC STN Files: CA, CAPLUS

DT.CA CAplus document type: Patent

RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

ANSWER 6 OF 39 REGISTRY COPYRIGHT 2004 ACS on STN L3

RN

291518-58-6 REGISTRY
Acetic acid, (tricyclo[3.3.1.13,7]dec-2-ylthio)-, 1,1-dimethylethyl ester CN(9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C16 H26 O2 S

SR

LCSTN Files: CA, CAPLUS

DT.CA CAplus document type: Patent

RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

ANSWER 7 OF 39 REGISTRY COPYRIGHT 2004 ACS on STN L_3

291518-57-5 REGISTRY RN

Prost-13-en-1-oic acid, 11,15-dihydroxy-9-oxo-, 2-methyl-2-CN(nitrosothio) propyl ester, (11a, 13E, 15S) - (9CI) (CA INDEX NAME)

FS STEREOSEARCH

C24 H41 N O6 S MF

SR CA

LC STN Files: CA, CAPLUS

DT.CA CAplus document type: Patent

Roles from patents: BIOL (Biological study); PREP (Preparation); USES RL.P (Uses)

Absolute stereochemistry.

Double bond geometry as shown.

ON S Me O (CH₂) 6 OH
$$E$$
 S (CH₂) A Me OH

- 1 REFERENCES IN FILE CA (1907 TO DATE)
- 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)
- L3 ANSWER 8 OF 39 REGISTRY COPYRIGHT 2004 ACS on STN
- RN 291518-56-4 REGISTRY
- CN Prost-13-en-1-oic acid, 11,15-dihydroxy-9-oxo-, [1-[(4-methylphenyl)sulfonyl]-4-(nitrosothio)-4-piperidinyl]methyl ester, $(11\alpha,13E,15S)$ (9CI) (CA INDEX NAME)
- FS STEREOSEARCH
- MF C33 H50 N2 O8 S2
- SR CA
- LC STN Files: CA, CAPLUS
- DT.CA CAplus document type: Patent
- RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

Absolute stereochemistry.

Double bond geometry as shown.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

- 1 REFERENCES IN FILE CA (1907 TO DATE)
- 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

- L3 ANSWER 9 OF 39 REGISTRY COPYRIGHT 2004 ACS on STN
- RN 291518-55-3 REGISTRY
- CN Prost-13-en-1-oic acid, 11,15-dihydroxy-9-oxo-, 2-[2-(nitrosothio)tricyclo[3.3.1.13,7]dec-2-yl]ethyl ester, (11α,13E,15S)- (9CI) (CA INDEX NAME)
- FS STEREOSEARCH
- MF C32 H51 N O6 S
- SR CA
- LC STN Files: CA, CAPLUS
- DT.CA CAplus document type: Patent
- RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

Absolute stereochemistry.

Double bond geometry as shown.

Me
$$(CH_2)_4$$
 OH E ON $CH_2)_6$ ON $CH_2)_6$ ON $CH_2)_6$ O

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

- 1 REFERENCES IN FILE CA (1907 TO DATE)
- 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)
- L3 ANSWER 10 OF 39 REGISTRY COPYRIGHT 2004 ACS on STN
- RN 291518-54-2 REGISTRY
- CN Prost-13-en-1-oic acid, 11,15-bis(nitrooxy)-9-oxo-, methyl ester, $(11\alpha,13E,15S)$ (9CI) (CA INDEX NAME)
- FS STEREOSEARCH
- MF C21 H34 N2 O9
- SR CA
- LC STN Files: CA, CAPLUS
- DT.CA CAplus document type: Patent
- RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

Absolute stereochemistry.

Double bond geometry as shown.

MeO (CH₂)₆
$$E$$
 S (CH₂)₄ Me

- 1 REFERENCES IN FILE CA (1907 TO DATE)
- 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)
- L3 ANSWER 11 OF 39 REGISTRY COPYRIGHT 2004 ACS on STN

RN 291518-53-1 REGISTRY

CN Prost-13-en-1-oic acid, 11,15-bis(nitrooxy)-9-oxo-, 3-(nitrooxy)-2,2bis[(nitrooxy)methyl]propyl ester, (11α,13E,15S)- (9CI) (CA INDEX
NAME)

FS STEREOSEARCH

MF C25 H39 N5 O18

SR CA

LC STN Files: CA, CAPLUS

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

Absolute stereochemistry.

Double bond geometry as shown.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

- L3 ANSWER 12 OF 39 REGISTRY COPYRIGHT 2004 ACS on STN
- RN 291518-52-0 REGISTRY
- CN Prost-13-en-1-oic acid, 11,15-dihydroxy-9-oxo-, 3-(nitrooxy)-2,2-bis[(nitrooxy)methyl]propyl ester, $(11\alpha,13E,15S)$ (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C25 H41 N3 O14

SR CA

LC STN Files: CA, CAPLUS

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

Absolute stereochemistry.

Double bond geometry as shown.

Me
$$(CH_2)_4$$
 S OH

 E
 O_2N
 O_2

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 13 OF 39 REGISTRY COPYRIGHT 2004 ACS on STN

RN **291518-51-9** REGISTRY

CN Prost-13-en-1-oic acid, 11,15-bis(nitrooxy)-9-oxo-, (2S)-2,3-bis(nitrooxy)propyl ester, $(11\alpha,13E,15S)$ - (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C23 H36 N4 O15

SR CA

LC STN Files: CA, CAPLUS

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

Absolute stereochemistry.

Double bond geometry as shown.

$$O_2N$$
 O_2N
 O_2N

- 1 REFERENCES IN FILE CA (1907 TO DATE)
- 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)
- L3 ANSWER 14 OF 39 REGISTRY COPYRIGHT 2004 ACS on STN
- RN 291518-50-8 REGISTRY
- CN Prost-13-en-1-oic acid, 11,15-dihydroxy-9-oxo-, (2S)-2,3-
- bis(nitrooxy)propyl ester, (11 α ,13E,15S)- (9CI) (CA INDEX NAME)
- FS STEREOSEARCH
- MF C23 H38 N2 O11
- SR CA
- LC STN Files: CA, CAPLUS
- DT.CA CAplus document type: Patent

Absolute stereochemistry.

Double bond geometry as shown.

$$O_2N$$
 O_2N
 O_2N
 O_3
 O_4
 O_4
 O_5
 O_6
 O_8
 O_8
 O_8
 O_9
 O

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

- 1 REFERENCES IN FILE CA (1907 TO DATE)
- 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)
- L3 ANSWER 15 OF 39 REGISTRY COPYRIGHT 2004 ACS on STN
- RN 291518-49-5 REGISTRY
- CN Prost-13-en-1-oic acid, 11,15-dihydroxy-9-oxo-, (2S,3S)-2,3,4-tris(nitrooxy)butyl ester, $(11\alpha,13E,15S)-(9CI)$ (CA INDEX NAME)
- FS STEREOSEARCH
- MF C24 H39 N3 O14
- SR CA
- LC STN Files: CA, CAPLUS
- DT.CA CAplus document type: Patent
- RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

Absolute stereochemistry.

Double bond geometry as shown.

$$O_2N$$
 O_2N
 O_2N

- 1 REFERENCES IN FILE CA (1907 TO DATE)
- 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)
- L3 ANSWER 16 OF 39 REGISTRY COPYRIGHT 2004 ACS on STN

RN 291518-48-4 REGISTRY

CN 1,2,3,4-Butanetetrol, 1,2,3-trinitrate, (2S,3S)- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C4 H7 N3 O10

SR CA

LC STN Files: CA, CAPLUS

DT.CA CAplus document type: Patent

RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)

Absolute stereochemistry.

$$O_2N$$
 O_2N
 O_3
 O_4
 O_4
 O_5
 O_5
 O_6
 O_7
 O_8
 O_8
 O_8
 O_8
 O_8
 O_8
 O_8
 O_8
 O_8

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

- 1 REFERENCES IN FILE CA (1907 TO DATE)
- 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)
- L3 ANSWER 17 OF 39 REGISTRY COPYRIGHT 2004 ACS on STN

RN 291518-46-2 REGISTRY

CN 1,2,3-Butanetriol, 4-[[(1,1-dimethylethyl)diphenylsilyl]oxy]-, trinitrate, (2S,3S)- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C20 H25 N3 O10 Si

SR CA

LC STN Files: CA, CAPLUS

DT.CA CAplus document type: Patent

RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

- 1 REFERENCES IN FILE CA (1907 TO DATE)
- 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)
- L3 ANSWER 18 OF 39 REGISTRY COPYRIGHT 2004 ACS on STN
- RN 291518-44-0 REGISTRY
- CN 1,2,3-Butanetriol, 4-[[(1,1-dimethylethyl)diphenylsilyl]oxy]-, (2S,3S)-(9CI) (CA INDEX NAME)
- FS STEREOSEARCH
- MF C20 H28 O4 Si
- SR CA
- LC STN Files: CA, CAPLUS
- DT.CA CAplus document type: Patent
- RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

- 1 REFERENCES IN FILE CA (1907 TO DATE)
- 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)
- L3 ANSWER 19 OF 39 REGISTRY COPYRIGHT 2004 ACS on STN
- RN 260268-26-6 REGISTRY
- CN 1,3-Propanediol, 2-[[[(1,1-dimethylethyl)diphenylsilyl]oxy]methyl]-2-[(nitrooxy)methyl]-, dinitrate (ester) (9CI) (CA INDEX NAME)
- FS 3D CONCORD
- MF C21 H27 N3 O10 Si
- SR CA
- LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL
- DT.CA CAplus document type: Patent
- RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)

- 4 REFERENCES IN FILE CA (1907 TO DATE)
- 4 REFERENCES IN FILE CAPLUS (1907 TO DATE)
- L3 ANSWER 20 OF 39 REGISTRY COPYRIGHT 2004 ACS on STN
- RN 260268-08-4 REGISTRY
- CN Thionitrous acid (HNOS), S-[2-(2-hydroxyethyl)tricyclo[3.3.1.13,7]dec-2-yl] ester (9CI) (CA INDEX NAME)
- MF C12 H19 N O2 S
- SR CA
- LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL
- DT.CA CAplus document type: Patent
- RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

- 6 REFERENCES IN FILE CA (1907 TO DATE)
- 6 REFERENCES IN FILE CAPLUS (1907 TO DATE)
- L3 ANSWER 21 OF 39 REGISTRY COPYRIGHT 2004 ACS on STN
- RN 183236-36-4 REGISTRY
- CN 1,3-Propanediol, 2-[[[(1,1-dimethylethyl)diphenylsilyl]oxy]methyl]-2-(hydroxymethyl)- (9CI) (CA INDEX NAME)
- FS 3D CONCORD
- DR 395069-71-3
- MF C21 H30 O4 Si
- SR CA
- LC STN Files: CA, CAPLUS, CASREACT, TOXCENTER, USPATFULL
- DT.CA CAplus document type: Journal; Patent
- RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)
- RL.NP Roles from non-patents: PREP (Preparation); RACT (Reactant or reagent)

$$ext{CH}_2- ext{OH} ext{ Ph} \ | \ ext{HO}- ext{CH}_2- ext{C}- ext{CH}_2- ext{O}- ext{Si}- ext{Bu}- ext{t} \ | \ ext{CH}_2- ext{OH} ext{ Ph} \ ext{CH}_2- ext{OH} ext{Ph}$$

- 10 REFERENCES IN FILE CA (1907 TO DATE)
- 10 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 22 OF 39 REGISTRY COPYRIGHT 2004 ACS on STN

RN 154504-21-9 REGISTRY

CN 1,2,3-Propanetriol, 1,2-dinitrate, (2S)- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1,2,3-Propanetriol, 1,2-dinitrate, (S)-

OTHER NAMES:

CN (2S)-2,3-Bis(nitrooxy)propan-1-ol

FS STEREOSEARCH

MF C3 H6 N2 O7

SR CA

LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

DT.CA CAplus document type: Journal; Patent

RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)

RL.NP Roles from non-patents: PREP (Preparation)

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

- 3 REFERENCES IN FILE CA (1907 TO DATE)
- 3 REFERENCES IN FILE CAPLUS (1907 TO DATE)
- L3 ANSWER 23 OF 39 REGISTRY COPYRIGHT 2004 ACS on STN

RN 127251-09-6 REGISTRY

CN 1,3-Dioxolane-4-methanol, 5-[[[(1,1-dimethylethyl)diphenylsilyl]oxy]methyl

]-2,2-dimethyl-, (4S,5S)- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

2N 1,3-Dioxolane-4-methanol, 5-[[[(1,1-dimethylethyl)diphenylsilyl]oxy]methyl

]-2,2-dimethyl-, (4S-trans)-

FS STEREOSEARCH

MF C23 H32 O4 Si

SR CA

LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT

(*File contains numerically searchable property data)

DT.CA CAplus document type: Journal; Patent

RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)

RL.NP Roles from non-patents: PREP (Preparation); RACT (Reactant or reagent)

Absolute stereochemistry.

- 13 REFERENCES IN FILE CA (1907 TO DATE)
- 13 REFERENCES IN FILE CAPLUS (1907 TO DATE)
- ANSWER 24 OF 39 REGISTRY COPYRIGHT 2004 ACS on STN L3
- 125978-95-2 REGISTRY RN
- Synthase, nitric oxide (9CI) (CA INDEX NAME) CN

OTHER NAMES:

- CNE.C. 1.14.13.39
- Nitric oxide synthase CN
- Nitric oxide synthetase CN
- NO synthase CN
- MF Unspecified
- CI MAN
- SR CA
- STN Files: ADISNEWS, AGRICOLA, ANABSTR, BIOBUSINESS, BIOSIS, BIOTECHNO, LC CA, CAPLUS, CEN, CHEMCATS, CIN, CSCHEM, EMBASE, IPA, PROMT, TOXCENTER, USPAT2, USPATFULL
- DT.CA Caplus document type: Book; Conference; Dissertation; Journal; Patent; Report
- Roles from patents: ANST (Analytical study); BIOL (Biological study); RL.P FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)
- Roles for non-specific derivatives from patents: ANST (Analytical RLD.P study); BIOL (Biological study); PREP (Preparation); PROC (Process); PRP (Properties); USES (Uses)
- Roles from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU RL.NP (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)
- RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); USES (Uses)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

- 19272 REFERENCES IN FILE CA (1907 TO DATE)
 - 64 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
- 19313 REFERENCES IN FILE CAPLUS (1907 TO DATE)
- ANSWER 25 OF 39 REGISTRY COPYRIGHT 2004 ACS on STN L3
- RN
- 73303-88-5 REGISTRY
 1-Propanol, 2-mercapto-2-methyl- (7CI, 9CI) (CA INDEX NAME) CN OTHER NAMES:
- 2-(Hydroxymethyl)propane-2-thiol
- CN2-Mercapto-2,2-dimethylethanol
- CN2-Mercapto-2-methyl-1-propanol
- CN2-Methyl-2-mercapto-1-propanol

CN 2-Methyl-2-mercaptopropanol-1

FS 3D CONCORD

MF C4 H10 O S

LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, CASREACT, TOXCENTER, USPAT2, USPATFULL

(*File contains numerically searchable property data)

DT.CA CAplus document type: Journal; Patent

RL.NP Roles from non-patents: PREP (Preparation); PRP (Properties); RACT (Reactant or reagent); NORL (No role in record)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

18 REFERENCES IN FILE CA (1907 TO DATE)

18 REFERENCES IN FILE CAPLUS (1907 TO DATE)

1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L3 ANSWER 26 OF 39 REGISTRY COPYRIGHT 2004 ACS on STN

RN 57564-91-7 REGISTRY

CN Glycine, L-γ-glutamyl-S-nitroso-L-cysteinyl- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Glycine, N-(N-L-γ-glutamyl-S-nitroso-L-cysteinyl) -

OTHER NAMES:

CN Nitrosoglutathione

CN RVC 588

CN RVC 588 (peptide)

CN S-Nitrosoglutathione

S-Nitrosylglutathione

CN SNOG

CN

FS STEREOSEARCH

DR 162764-02-5

MF C10 H16 N4 O7 S

CI COM

LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAPLUS, CASREACT, CHEMCATS, CIN, CSCHEM, DRUGU, EMBASE, IPA, MEDLINE, PROMT, RTECS*, TOXCENTER, USPAT7ULL (*File contains numerically searchable property data)

DT.CA Caplus document type: Conference; Dissertation; Journal; Patent

RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); PREP (Preparation); PROC (Process); RACT (Reactant or reagent); USES (Uses)

RLD.P Roles for non-specific derivatives from patents: BIOL (Biological study); MSC (Miscellaneous); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

RLD.NP Roles for non-specific derivatives from non-patents: BIOL (Biological

study); PRP (Properties); USES (Uses)

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

645 REFERENCES IN FILE CA (1907 TO DATE)

14 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

648 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 27 OF 39 REGISTRY COPYRIGHT 2004 ACS on STN

RN 50622-09-8 REGISTRY

CN 1,3-Dioxolane-4,5-dimethanol, 2,2-dimethyl-, (4S,5S)- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1,3-Dioxolane-4,5-dimethanol, 2,2-dimethyl-, (4S-trans)-

OTHER NAMES:

CN (+)-2,3-0-Isopropylidene-L-threitol

CN (4S,5S)-4,5-Bis(hydroxymethyl)-2,2-dimethyl-1,3-dioxolane

CN 2,3-0-Isopropylidene-L-threitol

FS STEREOSEARCH

MF C7 H14 O4

CI COM

LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CSCHEM, MSDS-OHS, SPECINFO, TOXCENTER, USPATFULL

(*File contains numerically searchable property data)

Other Sources: EINECS**

(**Enter CHEMLIST File for up-to-date regulatory information)

DT.CA CAplus document type: Journal; Patent

RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)

RL.NP Roles from non-patents: ANST (Analytical study); FORM (Formation, nonpreparative); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

Absolute stereochemistry. Rotation (+).

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

168 REFERENCES IN FILE CA (1907 TO DATE) 168 REFERENCES IN FILE CAPLUS (1907 TO DATE)

```
ANSWER 28 OF 39 REGISTRY COPYRIGHT 2004 ACS on STN
     41661-47-6 REGISTRY
RN
     4-Piperidinone (9CI) (CA INDEX NAME)
CN
OTHER NAMES:
     γ-Piperidinone
     γ-Piperidone
CN
     4-0xopiperidine
CN
     4-Piperidone
CN
     3D CONCORD
FS
     C5 H9 N O
MF
     COM
CI
     STN Files: BEILSTEIN*, BIOSIS, CA, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, PROMT, PS, TOXCENTER, USPAT2, USPATFULL
LC
         (*File contains numerically searchable property data)
                     EINECS**
     Other Sources:
         (**Enter CHEMLIST File for up-to-date regulatory information)
DT.CA Caplus document type: Book; Conference; Dissertation; Journal; Patent
       Roles from patents: OCCU (Occurrence); PREP (Preparation); RACT
RL.P
       (Reactant or reagent); USES (Uses); NORL (No role in record)
       Roles for non-specific derivatives from patents: PREP (Preparation);
RLD.P
       RACT (Reactant or reagent); USES (Uses)
       Roles from non-patents: BIOL (Biological study); FORM (Formation,
RL.NP
       nonpreparative); PREP (Preparation); PROC (Process); PRP (Properties);
       RACT (Reactant or reagent); USES (Uses); NORL (No role in record)
RLD.NP Roles for non-specific derivatives from non-patents: BIOL (Biological
       study); PREP (Preparation); PRP (Properties); RACT (Reactant or reagent)
```



N-p-Toluenesulfonyl-4-piperidone

272 REFERENCES IN FILE CA (1907 TO DATE)

24 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

274 REFERENCES IN FILE CAPLUS (1907 TO DATE)

ANSWER 29 OF 39 REGISTRY COPYRIGHT 2004 ACS on STN 1.3 33439-27-9 REGISTRY RN4-Piperidinone, 1-[(4-methylphenyl)sulfonyl]- (9CI) (CA INDEX NAME) OTHER CA INDEX NAMES: 4-Piperidone, 1-(p-tolylsulfonyl)- (8CI) OTHER NAMES: CN 1-(p-Toluenesulfonyl)-4-piperidone CN 1-Tosyl-4-piperidinone CN1-Tosyl-4-piperidone 1-[(4-Methylphenyl)sulfonyl]-4-piperidinone CN

FS 3D CONCORD C12 H15 N O3 S MF

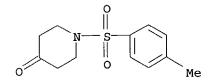
CN

LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, SPECINFO, TOXCENTER, USPATFULL (*File contains numerically searchable property data)

DT.CA CAplus document type: Journal; Patent

RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)

RL.NP Roles from non-patents: PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); NORL (No role in record)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

26 REFERENCES IN FILE CA (1907 TO DATE)
26 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 30 OF 39 REGISTRY COPYRIGHT 2004 ACS on STN

RN 23695-65-0 REGISTRY

CN Tricyclo[3.3.1.13,7] decanethione (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 2-Adamantanethione (8CI)

OTHER NAMES:

CN 2-Thioadamantanone

CN Adamantan-2-thione

CN Adamantanethione

CN Thioadamantanone

CN Thioadamantone

FS 3D CONCORD

MF C10 H14 S

CI COM

LC STN Files: BEILSTEIN*, BIOSIS, CA, CAPLUS, CASREACT, CHEMINFORMRX, EMBASE, GMELIN*, SPECINFO, TOXCENTER, USPAT2, USPATFULL (*File contains numerically searchable property data)

DT.CA Caplus document type: Dissertation; Journal; Patent

RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)

RL.NP Roles from non-patents: FORM (Formation, nonpreparative); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

132 REFERENCES IN FILE CA (1907 TO DATE)
132 REFERENCES IN FILE CAPLUS (1907 TO DATE)

```
ANSWER 31 OF 39 REGISTRY COPYRIGHT 2004 ACS on STN
L3
     15581-80-3 REGISTRY
RN
     Propanal, 2,2'-dithiobis[2-methyl- (9CI) (CA INDEX NAME)
CN
OTHER CA INDEX NAMES:
     Propionaldehyde, 2,2'-dithiobis[2-methyl- (7CI, 8CI)
OTHER NAMES:
     \alpha, \alpha'-Dithiobis (isobutyraldehyde)
CN
     \alpha, \alpha'-Dithiodiisobutyraldehyde
CN
     2,2'-Dithiobis(2-methylpropanal)
CN
     2,2'-Dithiobis(2-methylpropionaldehyde)
CN
     2,2'-Dithiobisisobutyraldehyde
CN
     2,2'-Dithiodiisobutyraldehyde
CN
     2,2,5,5-Tetramethyl-3,4-dithiahexanedial
CN
     Diisobutyraldehyde disulfide
CN
     Dithiodiisobutyraldehyde
CN
     3D CONCORD
FS
     C8 H14 O2 S2
MF
CI
     COM
     STN Files: AQUIRE, BEILSTEIN*, CA, CAOLD, CAPLUS, CASREACT, CHEMLIST,
LC
       IFICDB, IFIPAT, IFIUDB, TOXCENTER, USPAT2, USPATFULL
          (*File contains numerically searchable property data)
     Other Sources:
                      DSL**
          (**Enter CHEMLIST File for up-to-date regulatory information)
DT.CA CAplus document type: Journal; Patent; Report
       Roles from patents: PREP (Preparation); RACT (Reactant or reagent);
RL.P
       USES (Uses); NORL (No role in record)
       Roles for non-specific derivatives from patents: USES (Uses)
Roles from non-patents: BIOL (Biological study); PREP (Preparation);
RLD.P
       PROC (Process); RACT (Reactant or reagent); NORL (No role in record)
    CHO
           Мe
      - s-- s-- c-- cho
   Мe
           Me
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**
               93 REFERENCES IN FILE CA (1907 TO DATE)
                3 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
               93 REFERENCES IN FILE CAPLUS (1907 TO DATE)
                1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)
     ANSWER 32 OF 39 REGISTRY COPYRIGHT 2004 ACS on STN
L3
RN
     10102-43-9 REGISTRY
     Nitrogen oxide (NO) (8CI, 9CI) (CA INDEX NAME)
CN
OTHER NAMES:
CN
     43: PN: WO2004056314 SEQID: 64 claimed sequence
CN
     Amidogen, oxo-
CN
     INOmax
CN
     Nitric oxide
CN
     Nitric oxide (NO)
CN
     Nitric oxide trimer
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CN
     Nitrogen monooxide
CN
     Nitrogen monoxide
     Nitrogen oxide (N404)
CN
CN
     Nitrogen(II) oxide
     Nitrosyl radical
CN
     OHM 11771
CN
     53851-19-7, 51005-20-0, 51005-21-1, 90452-29-2
DR
MF
CI
     COM
                  ADISNEWS, AGRICOLA, ANABSTR, BIOBUSINESS, BIOSIS, BIOTECHNO,
     STN Files:
LC
       CA, CABA, CANCERLIT, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS,
       CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DDFU, DETHERM*,
       DIOGENES, DIPPR*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN*, HSDB*, IFICDB, IFIPAT, IFIUDB, IMSPATENTS, IMSRESEARCH, IPA, MEDLINE, MRCK*, MSDS-OHS, NIOSHTIC, PDLCOM*, PIRA,
       PROMT, RTECS*, SPECINFO, TOXCENTER, TULSA, ULIDAT, USPAT2, USPATFULL,
       VETU, VTB
          (*File contains numerically searchable property data)
     Other Sources: DSL**, EINECS**, TSCA**
          (**Enter CHEMLIST File for up-to-date regulatory information)
DT.CA CAplus document type: Book; Conference; Dissertation; Journal; Patent;
       Preprint; Report
       Roles from patents: ANST (Analytical study); BIOL (Biological study);
RL.P
       CMBI (Combinatorial study); FORM (Formation, nonpreparative); MSC
        (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process);
       PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role
       in record)
       Roles for non-specific derivatives from patents: ANST (Analytical
RLD.P
       study); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation);
       PROC (Process); USES (Uses)
       Roles from non-patents: ANST (Analytical study); BIOL (Biological
RL.NP
       study); CMBI (Combinatorial study); FORM (Formation, nonpreparative);
       MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC
        (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses);
       NORL (No role in record)
RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical
       study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC
        (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process);
        PRP (Properties); RACT (Reactant or reagent); USES (Uses)
N = 0
            81252 REFERENCES IN FILE CA (1907 TO DATE)
              466 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
            81435 REFERENCES IN FILE CAPLUS (1907 TO DATE)
     ANSWER 33 OF 39 REGISTRY COPYRIGHT 2004 ACS on STN
L3
     3434-33-1 REGISTRY
RN
     Prost-13-en-1-oic acid, 11,15-dihydroxy-9-oxo-, methyl ester,
      (11\alpha, 13E, 15S) - (9CI)
                            (CA INDEX NAME)
OTHER CA INDEX NAMES:
     Cyclopentaneheptanoic acid, 3-hydroxy-2-(3-hydroxy-1-octenyl)-5-oxo-,
     methyl ester, stereoisomer (8CI)
OTHER NAMES:
     Methyl prostaglandin E1
CN
CN
     Prostaglandin E1 methyl ester
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FS

STEREOSEARCH

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23452-93-9
DR
    C21 H36 O5
MF
                  AGRICOLA, BEILSTEIN*, BIOBUSINESS, BIOSIS, CA, CAOLD, CAPLUS,
     STN Files:
LC
       CASREACT, CHEMCATS, CSCHEM, EMBASE, IFICDB, IFIPAT, IFIUDB, SPECINFO,
       TOXCENTER, USPAT2, USPATFULL
         (*File contains numerically searchable property data)
       CAplus document type: Journal; Patent
DT.CA
       Roles from patents: BIOL (Biological study); PREP (Preparation); PROC
RL.P
       (Process); RACT (Reactant or reagent); USES (Uses)
       Roles from non-patents: BIOL (Biological study); PREP (Preparation);
RL.NP
       PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES
RLD.NP Roles for non-specific derivatives from non-patents: BIOL (Biological
       study); PREP (Preparation)
```

Absolute stereochemistry. Rotation (-). Double bond geometry as shown.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

72 REFERENCES IN FILE CAPLUS (1907 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L3 ANSWER 34 OF 39 REGISTRY COPYRIGHT 2004 ACS on STN

RN 1607-17-6 REGISTRY
CN 1,3-Propanediol, 2,2-bis[(nitrooxy)methyl]-, mononitrate (ester) (9CI)
(CA INDEX NAME)

2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

72 REFERENCES IN FILE CA (1907 TO DATE)

- OTHER CA INDEX NAMES:
 CN Pentaerythritol, trinitrate (6CI, 7CI, 8CI)
- OTHER NAMES: CN 3-Nitrooxy-2,2-bis(nitrooxymethyl)propan-1-ol
- CN Pentaerythrityl trinitrate
- CN Pentrinitrol
- CN Petrin
- CN W 2197
- FS 3D CONCORD
- DR 22026-67-1
- MF C5 H9 N3 O10
- CI COM
- LC STN Files: BEILSTEIN*, BIOBUSINESS, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CHEMLIST, DDFU, DRUGU, EMBASE, IFICDB, IFIPAT, IFIUDB, MEDLINE, MRCK*, MSDS-OHS, NIOSHTIC, PROMT, RTECS*, TOXCENTER, USAN, USPAT2, USPATFULL

(*File contains numerically searchable property data)
Other Sources: EINECS**, NDSL**, TSCA**, WHO

(**Enter CHEMLIST File for up-to-date regulatory information)

- DT.CA Caplus document type: Conference; Dissertation; Journal; Patent
- RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); PROC (Process); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)
- RLD.P Roles for non-specific derivatives from patents: BIOL (Biological study)
- RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)
- RLD.NP Roles for non-specific derivatives from non-patents: PROC (Process)

$$\begin{array}{c} \text{CH}_2-\text{OH} \\ | \\ \text{O}_2\text{N}-\text{O}-\text{CH}_2-\text{C}-\text{CH}_2-\text{O}-\text{NO}_2 \\ | \\ \text{CH}_2-\text{O}-\text{NO}_2 \end{array}$$

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

- 120 REFERENCES IN FILE CA (1907 TO DATE)
- 2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
- 120 REFERENCES IN FILE CAPLUS (1907 TO DATE)
- 12 REFERENCES IN FILE CAOLD (PRIOR TO 1967)
- L3 ANSWER 35 OF 39 REGISTRY COPYRIGHT 2004 ACS on STN
- RN 745-65-3 REGISTRY
- CN Prost-13-en-1-oic acid, 11,15-dihydroxy-9-oxo-, $(11\alpha,13E,15S)$ (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

- CN Cyclopentaneheptanoic acid, 3-hydroxy-2-(3-hydroxy-1-octenyl)-5-oxo-, (-)-
- CN Cyclopentaneheptanoic acid, 3α -hydroxy-2-(3-hydroxy-1-octenyl)-5-oxo-(7CI)

OTHER NAMES:

- CN (-)-Prostaglandin E1
- CN 11α, 15(S) -Dihydroxy-9-oxo-13-trans-prostenoic acid
- CN 11α,15α-Dihydroxy-9-oxo-13-trans-prostenoic acid
- CN Alprostadil
- CN Alprox TD
- CN Caverject
- CN 1-PGE1
- CN 1-Prostaglandin E1
- CN Liple
- CN Lipoprost
- CN Minprog
- CN NSC 165559
- CN ONO 1608
- CN Palux
- CN PGE1
- CN Prostaglandin E1
- CN Prostandin
- CN Prostandin 500

CN Prostin VR Pediatric

CN Prostivas

CN SEPA-alprostadil

CN SEPA-PGE1

CN SEPA-prostaglandin El

CN Topiglan

CN U 10136

FS STEREOSEARCH

DR 50-83-9, 22299-37-2, 50865-30-0

MF C20 H34 O5

CI COM

DT.CA

LC STN Files: ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*,
BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT,
CBNB, CEN, CHEMCATS, CHEMLIST, CIN, CSCHEM, DDFU, DIOGENES, DRUGU,
EMBASE, IFICDB, IFIPAT, IFIUDB, IMSCOSEARCH, IMSDRUGNEWS, IMSPATENTS,
IMSRESEARCH, IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, NIOSHTIC, PHAR,
PROMT, PROUSDDR, RTECS*, SPECINFO, TOXCENTER, USAN, USPAT2, USPATFULL,
VETU

(*File contains numerically searchable property data)
Other Sources: EINECS**, WHO

(**Enter CHEMLIST File for up-to-date regulatory information)
CAplus document type: Book; Conference; Dissertation; Journal; Patent;

Report

RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

RLD.P Roles for non-specific derivatives from patents: ANST (Analytical study); BIOL (Biological study); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)

RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

Absolute stereochemistry.

Double bond geometry as shown.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

8675 REFERENCES IN FILE CA (1907 TO DATE)

153 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

8680 REFERENCES IN FILE CAPLUS (1907 TO DATE)

RN's in WO 00/051978

2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

- ANSWER 36 OF 39 REGISTRY COPYRIGHT 2004 ACS on STN L_3 700-58-3 REGISTRY RN Tricyclo[3.3.1.13,7]decanone (9CI) (CA INDEX NAME) CNOTHER CA INDEX NAMES: 2-Adamantanone (6CI, 7CI, 8CI) CNOTHER NAMES: 2-Adamantone CN
- 2-Oxoadamantane CN
- CN Adamantanone
- CNNSC 126345
- Tricyclo[3.3.1.13,7]decan-2-one CN
- 3D CONCORD FS
- DR 30997-34-3
- MF C10 H14 O
- CI COM
- STN Files: ANABSTR, AQUIRE, BEILSTEIN*, BIOSIS, BIOTECHNO, CA, CAOLD, LC CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, DETHERM*, EMBASE, GMELIN*, HODOC*, IFICDB, IFIPAT, IFIUDB, MEDLINE, PROMT, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, USPAT2, USPATFULL (*File contains numerically searchable property data)
 - EINECS** Other Sources: (**Enter CHEMLIST File for up-to-date regulatory information)
- DT.CA CAplus document type: Conference; Dissertation; Journal; Patent; Report Roles from patents: ANST (Analytical study); PREP (Preparation); PROC RL.P (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)
- RLD.P Roles for non-specific derivatives from patents: PREP (Preparation); USES (Uses)
- Roles from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)
- RLD.NP Roles for non-specific derivatives from non-patents: BIOL (Biological study); FORM (Formation, nonpreparative); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

- 1442 REFERENCES IN FILE CA (1907 TO DATE)
 - 16 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
- 1447 REFERENCES IN FILE CAPLUS (1907 TO DATE)
 - 6 REFERENCES IN FILE CAOLD (PRIOR TO 1967)
- ANSWER 37 OF 39 REGISTRY COPYRIGHT 2004 ACS on STN L3
- 115-77-5 REGISTRY RN
- 1,3-Propanediol, 2,2-bis(hydroxymethyl)- (9CI) (CA INDEX NAME) OTHER CA INDEX NAMES:
- Pentaerythritol (8CI) CN

```
OTHER NAMES:
     1,1,1-Tris(hydroxymethyl)ethanol
CN
     2,2-Bis (hydroxymethyl) -1,3-propanediol
CN
CN
     Hercules P 6
CN
     Maxinutril
CN
     Metab-Auxil
CN
     Monopentaerythritol
CN
CN
     Monopentek
     Neulizer P
CN
     NSC 8100
CN
     PE 200
CN
     PE 200 (diol)
CN
CN
     Penetek
     Pentarit S
CN
CN
     Pentek
     PET 020
CN
     Tetra (hydroxymethyl) methane
     Tetrakis(hydroxymethyl)methane
     Tetramethylolmethane
     THME
CN
     3D CONCORD
FS
     75398-86-6, 88201-29-0
MF
     C5 H12 O4
CI
     COM
                   ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS,
LC
     STN Files:
       BIOSIS, BIOTECHNO, CA, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS,
       CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DIOGENES,
       DIPPR*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2,
       GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, IMSCOSEARCH, MEDLINE,
       MRCK*, MSDS-OHS, NIOSHTIC, PDLCOM*, PIRA, PROMT, PS, RTECS*, SPECINFO,
       TOXCENTER, TULSA, ULIDAT, USPAT2, USPATFULL
          (*File contains numerically searchable property data)
                      DSL**, EINECS**, TSCA**
     Other Sources:
          (**Enter CHEMLIST File for up-to-date regulatory information)
DT.CA CAplus document type: Book; Conference; Dissertation; Journal; Patent;
       Report
       Roles from patents: ANST (Analytical study); BIOL (Biological study);
RL. P
       MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC
        (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses);
       NORL (No role in record)
       Roles for non-specific derivatives from patents: ANST (Analytical
       study); BIOL (Biological study); MSC (Miscellaneous); PREP
        (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or
       reagent); USES (Uses)
       Roles from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU
RL.NP
        (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT
        (Reactant or reagent); USES (Uses); NORL (No role in record)
RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical
        study); BIOL (Biological study); FORM (Formation, nonpreparative); • MSC
```

(Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process);

PRP (Properties); RACT (Reactant or reagent); USES (Uses)

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CH2-OH
но-сн2-с-сн2-он
       CH2-OH
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9104 REFERENCES IN FILE CA (1907 TO DATE) 3297 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA 9119 REFERENCES IN FILE CAPLUS (1907 TO DATE) 10 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

ANSWER 38 OF 39 REGISTRY COPYRIGHT 2004 ACS on STN L378-84-2 REGISTRY RN CNPropanal, 2-methyl- (9CI) (CA INDEX NAME) OTHER CA INDEX NAMES: Isobutyraldehyde (8CI) OTHER NAMES:

 α -Methylpropionaldehyde

CN190: PN: WO2004005270 PAGE: 28-29 claimed sequence

CN 2-Formylpropane CN

2-Methyl-1-propanal CN

2-Methylpropanal

CN2-Methylpropionaldehyde Dimethylacetaldehyde CN

CNiso-Butyraldehyde

CNIsobutanal

CN Isobutyral

CNIsobutyric aldehyde

CNIsobutyryl aldehyde

CN Isopropylcarboxaldehyde

CN Isopropylformaldehyde

CN NSC 6739

FS 3D CONCORD

DR 26140-46-5

C4 H8 O MF

CI COM

AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, LC BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DETHERM*, DIPPR*, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, NIOSHTIC, PDLCOM*, PIRA, PROMT, PS, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, ULIDAT, USPAT2, USPATFULL, VTB

(*File contains numerically searchable property data)

DSL**, EINECS**, TSCA** Other Sources:

(**Enter CHEMLIST File for up-to-date regulatory information)

DT.CA CAplus document type: Book; Conference; Dissertation; Journal; Patent; Preprint; Report

RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); CMBI (Combinatorial study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)

RLD.P Roles for non-specific derivatives from patents: ANST (Analytical study); BIOL (Biological study); PREP (Preparation); PROC (Process); PRP

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RN's in WO 00/051978

(Properties); RACT (Reactant or reagent); USES (Uses)

RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); CMBI (Combinatorial study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)

RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical study); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

CH3

H3C-CH-CH—O

**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

10242 REFERENCES IN FILE CA (1907 TO DATE)
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130 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

10262 REFERENCES IN FILE CAPLUS (1907 TO DATE)
7 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

ANSWER 39 OF 39 REGISTRY COPYRIGHT 2004 ACS on STN L3RN70-18-8 REGISTRY Glycine, L-γ-glutamyl-L-cysteinyl- (9CI) (CA INDEX NAME) CN OTHER CA INDEX NAMES: Glutathione (8CI) Glycine, N-(N-L-γ-glutamyl-L-cysteinyl)-CNOTHER NAMES: γ -Glutamylcysteinylglycine CN $\gamma\text{-L-Glutamyl-L-cysteinylglycine}$ CNCN 13: PN: CN1314415 PAGE: 8 claimed sequence 99: PN: WO2004025259 PAGE: 57 claimed sequence CN CN Agifutol S CN Copren Deltathione CN Glutathion CN Glutathione-SH CN CN Glutide CNGlutinal CNCNIsethion L-Glutathione CN $N-(N-L-\gamma-Glutamyl-L-cysteinyl)$ glycine CNCN Neuthion CNReduced glutathione CN Tathion CN Tathione CN Triptide FS STEREOSEARCH

C10 H17 N3 O6 S

STN Files:

MF CI

LC

COM

ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS,

MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, NIOSHTIC, PIRA, PROMT, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, ULIDAT, USAN, USPAT2, USPATFULL, VETU, VTB

(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)

- DT.CA Caplus document type: Book; Conference; Dissertation; Journal; Patent; Preprint; Report
- RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study);
 FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU
 (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT
 (Reactant or reagent); USES (Uses); NORL (No role in record)
- RLD.P Roles for non-specific derivatives from patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)
- RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)
- RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical study); BIOL (Biological study); CMBI (Combinatorial study); FORM (Formation, nonpreparative); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

Absolute stereochemistry.

$$HO_2C$$
 H
 HS
 HO_2C
 H
 HS
 HO_2C
 H
 HS
 HO_2C
 H
 HS
 HO_2C
 H

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

36457 REFERENCES IN FILE CA (1907 TO DATE)

1463 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

36509 REFERENCES IN FILE CAPLUS (1907 TO DATE)

7 REFERENCES IN FILE CAOLD (PRIOR TO 1967)